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☐ 1. Document ID: US 20020028968 A1

Using default format because multiple data bases are involved.

L10: Entry 1 of 56

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Ilkenhans, Thomas	Cambridge		GB	
Oliver, Raymond	Stockton on Tees		GB	
Poliakoff, Martyn	Nottingham		GB	
Woodcock, Duncan C.	Cheshire		GB	

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 6310239 B1

L10: Entry 2 of 56

File: USPT

Oct 30, 2001

US-PAT-NO: 6310239

DOCUMENT-IDENTIFIER: US 6310239 B1

TITLE: Process for manufacturing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6307099 B1

L10: Entry 3 of 56

File: USPT

Oct 23, 2001

US-PAT-NO: 6307099

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 6255525 B1

L10: Entry 4 of 56

File: USPT

Jul 3, 2001

US-PAT-NO: 6255525

DOCUMENT-IDENTIFIER: US 6255525 B1

** See image for Certificate of Correction **

TITLE: Process for preparing purified carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 6245939 B1

L10: Entry 5 of 56

File: USPT

Jun 12, 2001

US-PAT-NO: 6245939

DOCUMENT-IDENTIFIER: US 6245939 B1

TITLE: Process for producing highly pure aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 6150553 A

L10: Entry 6 of 56

File: USPT

Nov 21, 2000

US-PAT-NO: 6150553

DOCUMENT-IDENTIFIER: US 6150553 A

TITLE: Method for recovering methyl acetate and residual acetic acid in the production acid of pure terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 6143926 A

L10: Entry 7 of 56

File: USPT

Nov 7, 2000

US-PAT-NO: 6143926

DOCUMENT-IDENTIFIER: US 6143926 A

TITLE: Process for producing pure terephthalic acid with improved recovery of

precursors, solvent and methyl acetate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 6124455 A

L10: Entry 8 of 56

File: USPT

Sep 26, 2000

US-PAT-NO: 6124455

DOCUMENT-IDENTIFIER: US 6124455 A

TITLE: Aryl or heteroaryl amides of tetrahydronaphthalene, chroman, thiochroman and 1,2,3,4-tetrahydroquinoline carboxylic acids, having an electron withdrawing substituent in the aromatic or heteroaromatic moiety, having retinoid-like biological activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 6075163 A

L10: Entry 9 of 56

File: USPT

Jun 13, 2000

US-PAT-NO: 6075163

DOCUMENT-IDENTIFIER: US 6075163 A

TITLE: Process for manufacturing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 6054610 A

L10: Entry 10 of 56

File: USPT

Apr 25, 2000

US-PAT-NO: 6054610

DOCUMENT-IDENTIFIER: US 6054610 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for preparing purified terephthalic acid and isophthalic acid from mixed xylenes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 6034269 A

Using default format because multiple data bases are involved.

L10: Entry 11 of 56

File: USPT

Mar 7, 2000

US-PAT-NO: 6034269

DOCUMENT-IDENTIFIER: US 6034269 A

TITLE: Process for producing pure carboxylic acids

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Turner; John Arthur	North Yorkshire			GB
Woodcock; Duncan Charles	Warrington			GB

US-CL-CURRENT: [562/412](#); [562/414](#), [562/485](#), [562/486](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 12. Document ID: US 6031128 A

L10: Entry 12 of 56

File: USPT

Feb 29, 2000

US-PAT-NO: 6031128

DOCUMENT-IDENTIFIER: US 6031128 A

TITLE: Process for manufacturing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 13. Document ID: US 5973196 A

L10: Entry 13 of 56

File: USPT

Oct 26, 1999

US-PAT-NO: 5973196

DOCUMENT-IDENTIFIER: US 5973196 A

TITLE: Process for producing purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 14. Document ID: US 5955394 A

L10: Entry 14 of 56

File: USPT

Sep 21, 1999

US-PAT-NO: 5955394

DOCUMENT-IDENTIFIER: US 5955394 A

TITLE: Recovery process for oxidation catalyst in the manufacture of aromatic
carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 15. Document ID: US RE36008 E

L10: Entry 15 of 56

File: USPT

Dec 22, 1998

US-PAT-NO: RE36008

DOCUMENT-IDENTIFIER: US RE36008 E

TITLE: Process for the production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 16. Document ID: US 5679847 A

L10: Entry 16 of 56

File: USPT

Oct 21, 1997

US-PAT-NO: 5679847

DOCUMENT-IDENTIFIER: US 5679847 A

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 17. Document ID: US 5567842 A

L10: Entry 17 of 56

File: USPT

Oct 22, 1996

US-PAT-NO: 5567842

DOCUMENT-IDENTIFIER: US 5567842 A

**** See image for Certificate of Correction ****

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 18. Document ID: US 5413681 A

L10: Entry 18 of 56

File: USPT

May 9, 1995

US-PAT-NO: 5413681

DOCUMENT-IDENTIFIER: US 5413681 A

TITLE: Process for the recovery of terephthalic acid and ethylene glycol from poly
(ethylene terephthalate)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 19. Document ID: US 5354898 A

L10: Entry 19 of 56

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 20. Document ID: US 5304676 A

L10: Entry 20 of 56

File: USPT

Apr 19, 1994

US-PAT-NO: 5304676

DOCUMENT-IDENTIFIER: US 5304676 A

TITLE: Process for the production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 21. Document ID: US 5200557 A

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L10: Entry 21 of 56

File: USPT

Apr 6, 1993

US-PAT-NO: 5200557

DOCUMENT-IDENTIFIER: US 5200557 A

TITLE: Process for preparation of crude terephthalic acid suitable for reduction to prepare purified terephthalic acid

DATE-ISSUED: April 6, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gee; John C.	Aurora	IL		
Rosenfeld; Jeffrey I.	Schaumburg	IL		
Bartos; Thomas M.	Wheaton	IL		

US-CL-CURRENT: 562/486; 562/414, 562/487, 562/608

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 22. Document ID: US 5175355 A

L10: Entry 22 of 56

File: USPT

Dec 29, 1992

US-PAT-NO: 5175355

DOCUMENT-IDENTIFIER: US 5175355 A

**** See image for Certificate of Correction ****

TITLE: Improved process for recovery of purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 23. Document ID: US 5095145 A

L10: Entry 23 of 56

File: USPT

Mar 10, 1992

US-PAT-NO: 5095145

DOCUMENT-IDENTIFIER: US 5095145 A

**** See image for Certificate of Correction ****

TITLE: Preparation of purified terephthalic acid from waste polyethylene terephthalate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 24. Document ID: US 4835307 A

L10: Entry 24 of 56

File: USPT

May 30, 1989

US-PAT-NO: 4835307

DOCUMENT-IDENTIFIER: US 4835307 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for controlling the manufacture of terephthalic acid to control the level and variability of the contaminant content and the optical density

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 25. Document ID: US 4675438 A

L10: Entry 25 of 56

File: USPT

Jun 23, 1987

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

**** See image for Certificate of Correction ****

TITLE: Direct continuous flow integration of production and purification of high purity iso- or terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 26. Document ID: US 4625056 A

L10: Entry 26 of 56

File: USPT

Nov 25, 1986

US-PAT-NO: 4625056

DOCUMENT-IDENTIFIER: US 4625056 A

TITLE: Process for producing benzene carboxylic acids from aromatic material utilizing an aliphatic organic acid agent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 27. Document ID: US 4375553 A

L10: Entry 27 of 56

File: USPT

Mar 1, 1983

US-PAT-NO: 4375553

DOCUMENT-IDENTIFIER: US 4375553 A

TITLE: Process for producing benzene carboxylic acid salts from aromatic materials

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 28. Document ID: US 4345098 A

L10: Entry 28 of 56

File: USPT

Aug 17, 1982

US-PAT-NO: 4345098

DOCUMENT-IDENTIFIER: US 4345098 A

TITLE: Process for producing benzene carboxylic acid salts and their acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 29. Document ID: US 4340752 A

L10: Entry 29 of 56

File: USPT

Jul 20, 1982

US-PAT-NO: 4340752

DOCUMENT-IDENTIFIER: US 4340752 A

TITLE: Process for the purification of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 30. Document ID: US 4258209 A

L10: Entry 30 of 56

File: USPT

Mar 24, 1981

US-PAT-NO: 4258209

DOCUMENT-IDENTIFIER: US 4258209 A

TITLE: Process for preparing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 31. Document ID: US 4201871 A

Using default format because multiple data bases are involved.

L10: Entry 31 of 56

File: USPT

May 6, 1980

US-PAT-NO: 4201871

DOCUMENT-IDENTIFIER: US 4201871 A

TITLE: Process for recovering terephthalic acid

DATE-ISSUED: May 6, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanouchi; Masatoshi	Nobeoka			JP
Takeuchi; Hiroshi	Nobeoka			JP
Ban; Kazuki	Nobeoka			JP
Asahina; Yoshiyuki	Nobeoka			JP

US-CL-CURRENT: 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 32. Document ID: US 4185073 A

L10: Entry 32 of 56

File: USPT

Jan 22, 1980

US-PAT-NO: 4185073

DOCUMENT-IDENTIFIER: US 4185073 A

**** See image for Certificate of Correction ****

TITLE: Apparatus for iso- or terephthalic acid production in and recovery from benzoic acid-water solvent system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 33. Document ID: US 4158738 A

L10: Entry 33 of 56

File: USPT

Jun 19, 1979

US-PAT-NO: 4158738

DOCUMENT-IDENTIFIER: US 4158738 A

**** See image for Certificate of Correction ****

TITLE: Process for the production of fiber-grade terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. De
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☐ 34. Document ID: US 4081464 A

L10: Entry 34 of 56

File: USPT

Mar 28, 1978

US-PAT-NO: 4081464

DOCUMENT-IDENTIFIER: US 4081464 A

**** See image for Certificate of Correction ****

TITLE: Iso- or terephthalic acid production in and recovery from benzoic acid-water solvent system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. De
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☐ 35. Document ID: US 4053506 A

L10: Entry 35 of 56

File: USPT

Oct 11, 1977

US-PAT-NO: 4053506

DOCUMENT-IDENTIFIER: US 4053506 A

TITLE: Production of fiber-grade terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. De
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☐ 36. Document ID: US 3965160 A

L10: Entry 36 of 56

File: USPT

Jun 22, 1976

US-PAT-NO: 3965160

DOCUMENT-IDENTIFIER: US 3965160 A

TITLE: Removal of iron impurities from aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. De
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☐ 37. Document ID: US 3887613 A

L10: Entry 37 of 56

File: USPT

Jun 3, 1975

US-PAT-NO: 3887613

DOCUMENT-IDENTIFIER: US 3887613 A

TITLE: Thermal purification of terephthalic acid using group I-B, II-B, VIII catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 38. Document ID: US 3887612 A

L10: Entry 38 of 56

File: USPT

Jun 3, 1975

US-PAT-NO: 3887612

DOCUMENT-IDENTIFIER: US 3887612 A

TITLE: Process for preparing high purity terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 39. Document ID: US 3883584 A

L10: Entry 39 of 56

File: USPT

May 13, 1975

US-PAT-NO: 3883584

DOCUMENT-IDENTIFIER: US 3883584 A

TITLE: Process for the preparation of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 40. Document ID: US 3873611 A

L10: Entry 40 of 56

File: USPT

Mar 25, 1975

US-PAT-NO: 3873611

DOCUMENT-IDENTIFIER: US 3873611 A

TITLE: Process for the preparation of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 41. Document ID: US 3862218 A

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L10: Entry 41 of 56

File: USPT

Jan 21, 1975

US-PAT-NO: 3862218

DOCUMENT-IDENTIFIER: US 3862218 A

TITLE: PURIFICATION OF TEREPHTHALIC ACID BY THERMAL TREATMENT

DATE-ISSUED: January 21, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stautzenberger; Adin L.	Corpus Christi	TX		

US-CL-CURRENT: 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 42. Document ID: US 3726914 A

L10: Entry 42 of 56

File: USPT

Apr 10, 1973

US-PAT-NO: 3726914

DOCUMENT-IDENTIFIER: US 3726914 A

TITLE: PROCESS FOR THE PRODUCTION OF ARYL CARBOXYLIC ACIDS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 43. Document ID: US 3850983 A

L10: Entry 43 of 56

File: USOC

Nov 26, 1974

US-PAT-NO: 3850983

DOCUMENT-IDENTIFIER: US 3850983 A

TITLE: SEPARATION OF TEREPHTHALIC FROM PARATOLUIC ACID FROM SOLUTIONS THEREOF IN WATER AND/OR ACETIC ACID

DATE-ISSUED: November 26, 1974

INVENTOR-NAME: PARK C

US-CL-CURRENT: 562/486; 23/296, 562/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 44. Document ID: US 3708532 A

L10: Entry 44 of 56

File: USOC

Jan 2, 1973

US-PAT-NO: 3708532

DOCUMENT-IDENTIFIER: US 3708532 A

TITLE: PROCESS FOR THE CONTINUOUS PURIFICATION OF CRUDE TEREPHTHALIC ACID

DATE-ISSUED: January 2, 1973

INVENTOR-NAME: TOKASHIKI M; ICHIKAWA Y

US-CL-CURRENT: 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 45. Document ID: US 3654350 A

L10: Entry 45 of 56

File: USOC

Apr 4, 1972

US-PAT-NO: 3654350

DOCUMENT-IDENTIFIER: US 3654350 A

TITLE: PURIFICATION OF TEREPHTHALIC ACID

DATE-ISSUED: April 4, 1972

INVENTOR-NAME: BLAY JORGE A; WITT ENRIQUE R

US-CL-CURRENT: 562/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 46. Document ID: US 3644507 A

L10: Entry 46 of 56

File: USOC

Feb 22, 1972

US-PAT-NO: 3644507

DOCUMENT-IDENTIFIER: US 3644507 A

TITLE: THERMAL PURIFICATION OF TEREPHTHALIC ACID USING IODINE OR BROMINE CATALYSTS

DATE-ISSUED: February 22, 1972

INVENTOR-NAME: BLAY JORGE A; WITT ENRIQUE R

US-CL-CURRENT: 562/486, 562/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 47. Document ID: US 3592848 A

L10: Entry 47 of 56

File: USOC

Jul 13, 1971

US-PAT-NO: 3592848

DOCUMENT-IDENTIFIER: US 3592848 A

TITLE: METHOD OF PURIFYING TEREPHTHALIC ACID

DATE-ISSUED: July 13, 1971

INVENTOR-NAME: FRANKEL IRWIN; STEWART GEORGE ; WINSTROM LEON O

US-CL-CURRENT: 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 48. Document ID: US 3584039 A

L10: Entry 48 of 56

File: USOC

Jun 8, 1971

US-PAT-NO: 3584039

DOCUMENT-IDENTIFIER: US 3584039 A

TITLE: FIBER-GRADE TEREPHTHALIC ACID BY CATALYTIC HYDROGEN TREATMENT OF DISSOLVED IMPURE TEREPHTHALIC ACID

DATE-ISSUED: June 8, 1971

INVENTOR-NAME: MEYER DELBERT H

US-CL-CURRENT: 562/486; 562/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 49. Document ID: US 3522298 A

L10: Entry 49 of 56

File: USOC

Jul 28, 1970

US-PAT-NO: 3522298

DOCUMENT-IDENTIFIER: US 3522298 A

TITLE: TEREPHTHALIC ACID PURIFICATION PROCESS

DATE-ISSUED: July 28, 1970

INVENTOR-NAME: REMSBERG ALBERT L; BRYANT HOWARD S JR ; DUVAL CLAIBORNE A JR

US-CL-CURRENT: 562/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 50. Document ID: US 3519684 A

L10: Entry 50 of 56

File: USOC

Jul 7, 1970

US-PAT-NO: 3519684

DOCUMENT-IDENTIFIER: US 3519684 A

TITLE: PREPARATION OF AROMATIC DISUBSTITUTED CARBOXYLIC ACIDS

DATE-ISSUED: July 7, 1970

INVENTOR-NAME: CAVE JAMES PATRICK; WITT ENRIQUE ROBERTO ; ZEE-CHENG KWANG YUEN

US-CL-CURRENT: 562/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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Terms	Documents
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[Generate OAS](#)

Search Results - Record(s) 51 through 56 of 56 returned.

☐ 51. Document ID: US 3431243 A

Using default format because multiple data bases are involved.

L10: Entry 51 of 56

File: USOC

Mar 4, 1969

US-PAT-NO: 3431243

DOCUMENT-IDENTIFIER: US 3431243 A

TITLE: PROCESS FOR PREPARATION OF POLY(ETHYLENE TERPHTHALATE) FROM COMPRESSED TEREPHTHALIC ACID

DATE-ISSUED: March 4, 1969

INVENTOR-NAME: UNO FUMIO; UNO SEIJI ; KAZAMA SEIJI

US-CL-CURRENT: 528/302, 528/305, 528/308.3, 528/308.5, 528/308.8, 528/309.1,
560/55, 560/84, 560/85, 560/90, 560/94, 562/480

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 52. Document ID: US 3405171 A

L10: Entry 52 of 56

File: USOC

Oct 8, 1968

US-PAT-NO: 3405171

DOCUMENT-IDENTIFIER: US 3405171 A

TITLE: Oxidation of alkyl naphthalenes to naphthalene carboxylic acids

DATE-ISSUED: October 8, 1968

INVENTOR-NAME: ROBERTS EDWARD S; LOUISE CHRISTMANN

US-CL-CURRENT: 562/410, 549/232, 552/208, 552/292

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 53. Document ID: US 3102137 A

L10: Entry 53 of 56

File: USOC

Aug 27, 1963

US-PAT-NO: 3102137

DOCUMENT-IDENTIFIER: US 3102137 A

TITLE: Purification of terephthalic acid

DATE-ISSUED: August 27, 1963

INVENTOR-NAME: WISE ROBERT H; MEYER DELBERT H

US-CL-CURRENT: 562/480, 562/486, 562/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 54. Document ID: US 2863914 A

L10: Entry 54 of 56

File: USOC

Dec 9, 1958

US-PAT-NO: 2863914

DOCUMENT-IDENTIFIER: US 2863914 A

TITLE: Process for converting phthalic acid into terephthalic acid

DATE-ISSUED: December 9, 1958

INVENTOR-NAME: BERNHARD RAECKE

US-CL-CURRENT: 562/482; 560/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 55. Document ID: US 2695312 A

L10: Entry 55 of 56

File: USOC

Nov 23, 1954

US-PAT-NO: 2695312

DOCUMENT-IDENTIFIER: US 2695312 A

TITLE: Preparation of aromatic carboxylic acids

DATE-ISSUED: November 23, 1954

INVENTOR-NAME: TOLAND JR WILLIAM G

US-CL-CURRENT: 562/411; 562/483, 564/152, 564/156, 568/800

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 56. Document ID: US 2531173 A

L10: Entry 56 of 56

File: USOC

Nov 21, 1950

US-PAT-NO: 2531173

DOCUMENT-IDENTIFIER: US 2531173 A

TITLE: Preparation of terephthalic acid

DATE-ISSUED: November 21, 1950

INVENTOR-NAME: TOLAND JR WILLIAM G

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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